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167659

December 18, 1968

Mr. Alcine Grillot
2708 Kreitzer Road
Dayton, Ohio 45439

Re: License and Regulations for Landfills
South Dayton Dump and Landfill
1975 Springboro Pike
Moraine

Dear Mr. Grillot:

We have been in personal contact with each landfill operator during the past few months and have advised each of the changes in the State law.

Since the State law is not in full effect until July 1, 1969, the Montgomery County Prosecutor and Legal Council of the Ohio Department of Health, have advised us to take the following action.

The Board of Health on November 3, 1968 repealed only Section 65.40, 65.50 and 65.55 of the Montgomery County Sanitary Regulations. Now all landfill operators, under the jurisdiction of the Montgomery County Health Department will need to apply only for the State license. This should be done through our office. However, both the standards as set forth in Regulation 65 and the State standards will be applicable and enforced.

All garbage and refuse must be compacted and covered daily, with a minimum of 6" of dirt. Additional covering requirements will be found in Regulation 65.

No burning will be allowed within a landfill site. The burning of clean wood, free of garbage and refuse will not be within the purview of this office unless a nuisance is created. On sites other than a landfill site, we would advise you first check with your local zoning office and fire department.

The State law requires a landfill plan to be submitted with your application. (Note page 34 - 35 of the enclosed "Interpretive Guide" from the Ohio Department of Health.) Since the deadline for submission of landfill applications is close, December 31, 1968, we are not at this time requiring extensive engineering plans. We do, however, expect your operation plan to be complete enough to outline your method of operation.

We suggest you read both of the enclosed regulations carefully. Please enclose your check for the State required \$500.00 with your application. Checks should be made payable to the Montgomery County Health Department. The State law requires you to have your license by January 1, 1969.

If you have any questions, please feel free to call us.

Sincerely yours,

Robert A. Vogel
ROBERT A. VOGEL, M.D.,
Health Commissioner

RAV/cs
Enc.

18 Dec 68

Delivered in person to Mr. Grillot

J 2/3

GROUND-WATER POLLUTION SOURCE INVENTORY

LANDFILL FACT SHEET

N 39° 43'34"
E 84° 13'17"DESCRIPTION:

Entity Moraine Recycling Inc.
Owner/Operator _____
Location 1975 Springboro Pike Map Quad. South Dayton
County Montgomery Township Moraine Section 13
Length of Operation _____
Areal Extent _____
Character of Wastes Industrial, Municipal Amount _____
Method of Operation Area Fill
Remarks _____

GEOLOGY:Glacial Deposits S Alluvial deposits in river bottom lands.Bedrock Richmond and Maysville Group (shale and limestone)Depth to Bedrock 125+ feetType of Cover Available sand and gravelQuantity inadequateTopography flat floodplainSurface Drainage West to Miami River

Remarks _____

GROUND-WATER:Principal Aquifer(s) Sand and Gravel depositsVertical Separation of Fill and Aquifer NoneDistance to Nearby Wells None nearby, closest 1/2 mile upgradient from site.Direction of Ground-Water Movement West to Great Miami River

Remarks _____

POLLUTION POTENTIAL:

Existing or Potential Effect High pollution potential. Barrels and
drums of highly toxic chemical are being accepted at the fill. No cover
material is being used.

Monitor Program Monitor wells should be placed down gradient from the
fill to observe the movement of any contaminants.

Comments Liquid wastes should no longer be accepted at this site
because of the effect they will have on the groundwater quality
in this area.

Prepared By _____

Date _____

<p>Chapter 1</p> <p><u>AIR</u></p> <p>Criterion Compliance Decision</p> <p><input checked="" type="checkbox"/> Complies</p> <p><input type="checkbox"/> Does Not Comply</p>

1. Is open burning of solid wastes practiced at the facility?

☐ YES (Continue to 2)

- ☐ Records of previous open burning
- ☐ Visual observation of open burning
- ☐ Physical evidence of previous open burning

☒ NO (COMPLIES)

- ☐ Facility is a surface impoundment and does not open burn wastes
- ☐ Facility is a landspreading operation and does not open burn wastes
- ☒ Landfill which does not open burn

2. Are residential, commercial, institutional, or industrial solid wastes open burned at the facility?

☐ YES (Does not comply)

- ☐ Records of previous open burning
- ☐ Visual observation of open burning
- ☐ Physical evidence of previous open burning

☐ NO (Continue to 3)

3. Are landclearing debris, diseased trees, debris from emergency clean-up operations, silvicultural and agricultural wastes, or ordnance open burned at the facility?

☐ YES (Continue to 4)

- ☐ Records of previous burning
- ☐ Visual observation of open burning
- ☐ Physical evidence of previous open burning

☐ NO (COMPLIES)

4. Does the facility control air emissions in accordance with the State Implementation Plan (SIP) approved or promulgated by the administrator pursuant to Section 110 of the Clean Air Act?

☐ YES (COMPLIES)

- ☐ Opinion given by State agency managing the SIP
- ☐ Variances or permits under SIP examined
- ☐ Visual observations of open burning comply with SIP

☐ NO (Does not comply)

Chapter 2(b)
SAFETY - FIRES
Criterion Compliance Decision
☒ Complies
☐ Does Not Comply

1. Does the facility have the potential for fire occurrence?

☒ YES (Continue to 2)

☐ NO (COMPLIES)

☐ Facility receives only non-flammable, non-combustible wastes

2. Does the facility comply with Section 257.3-7, of the Air Criterion?

☒ YES (COMPLIES)

☒ The facility controls the occurrence of fires through compliance with Section 257.3-7

☐ NO (Continue to 3)

3. Is periodic cover material applied so as to reduce the risk of fire?

☐ YES (COMPLIES)

☐ The facility applies and compacts cover over combustible solid waste at the end of the operating day

☐ The facility applies and compacts cover at least once every 24 hours

☐ The facility incorporates all waste into the soil at the end of the operating day

☐ NO (Continue to 4)

4. Does the facility have adequate operating procedures to control fires should they occur?

☐ YES (COMPLIES)

☐ Landfill minimizes fire hazards when conducting open burning, such as:

☐ Supervision during burning

☐ Limiting access during burning

☐ Established arrangements with the local fire department

☐ Earth stockpiles near the burning area

☐ On-site availability of heavy equipment to extinguish fires

☐ Water supply under sufficient pressure is available

☐ Fire extinguishers are available

☐ Firebreaks or fire lanes are present

Chapter 2(b)

SAFETY - FIRES

(Continued)

☐ Landfill minimizes fire hazards by proper operating procedures:

- ☐ Previous inspections and reports indicate no problem
- ☐ Permit conditions are being followed (for a fire protection plan)
- ☐ No complaints have been made
- ☐ Records of local fire department indicate no citations have been given
- ☐ High frequency of spreading and compacting all combustible wastes
- ☐ Waste materials with high fire potential are unloaded a safe distance from the working face
- ☐ Unloading of wastes adequately supervised
- ☐ Hot or burning loads are extinguished with water or soil before incorporating into the fill
- ☐ Earth stockpiles are located near the working face
- ☐ Water supply under sufficient pressure is available at the working face
- ☐ Fire extinguishers present on all equipment and buildings
- ☐ Arrangements are established with local fire fighting departments
- ☐ On-site availability of heavy equipment to extinguish fires
- ☐ Firebreaks, fire lanes are present

☐ Surface impoundment minimizes fire hazards by proper handling and storage of liquid wastes:

- ☐ Wastes are mixed to reduce flammability
- ☐ Suitable fire extinguishing equipment is present
- ☐ Established arrangements with local fire department or trained on-site personnel
- ☐ Wastes can be rapidly drained or waste flow can be controlled
- ☐ Waste can be isolated
- ☐ Impoundment is readily accessible by fire-fighting equipment

☐ Landspreading facility minimizes fire hazards by proper operating procedures:

- ☐ Suitable fire-fighting equipment is available
- ☐ Established arrangements with local fire department
- ☐ Facility is readily accessible by fire-fighting equipment

☐ NO (Does not comply)

Chapter 2(d)

SAFETY - ACCESS

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is access of unauthorized persons into the facility controlled?

☒ YES (COMPLIES)

Natural controls:

- ☐ Trees and hedges
- ☒ Berms and ditches
- ☐ Cliffs and ravines
- ☐ Remoteness

Artificial controls:

- ☒ Gates
- ☒ Fences

☐ NO (Continue to 2)

2. Are authorized persons controlled within the facility so as to not expose them to potential health and safety hazards?

☐ YES (COMPLIES)

- ☐ Supervision of the unloading area
- ☐ Adequate lighting
- ☐ Posting information and direction signs
- ☐ Prohibition of scavenging
- ☐ Control of salvaging
- ☐ Trafficable roadways
- ☐ Alternate discharge point

☐ NO (Does not comply)

Chapter 4

GROUND WATER

Criterion Compliance Decision

☐ Complies

☐ Does Not Comply
HIGH PRIORITY

1. Does ground water contain more than 10,000 mg/l TDS, and is it not being used as a human drinking water source?

☐ YES (COMPLIES)

- ☐ Ground water is not present beneath the site
- ☐ Ground water has more than 10,000 mg/l TDS, TDS = _____ and is not used as a human drinking water source
- ☐ Ground water is not present in usable quantities beneath the site

☒ NO (Continue to 2)

- ☒ Ground water has less than 10,000 mg/l TDS
- ☒ Ground water is being used as a drinking water source

2. Rank facility according to its contamination potential.

Landfills

- ☐ Facility overlies sole source aquifer (high priority)
- ☐ Facility has a history of leachate problems (high priority)
- ☐ Ranking from Table 4-2
- Saturated zone permeability $10^{-1} - 10^{-2}$ cm/sec
- Unsaturated zone thickness 6 m
- Unsaturated zone permeability $10^{-1} - 10^{-2}$ cm/sec
- ☐ Facility is in an area where precipitation is exceeded by evaporation plus transpiration (low priority)

- ☒ High priority
- ☐ Medium priority
- ☐ Low priority

Surface Impoundments

Ranking from Table 4-3

Saturated zone rating _____

Unsaturated zone rating _____

- ☐ High priority
- ☐ Medium priority
- ☐ Low priority

Chapter 4
GROUND WATER
Continued

Landspreading Facilities

- ☐ Sludge nitrogen is being applied in excess of crop or vegetative demand (high priority)
- ☐ Ranking from Table 4-2 for industrial waste facilities

- ☐ High priority
- ☐ Medium priority
- ☐ Low priority

3. Has an underground drinking water source been contaminated by the facility beyond the solid waste (or alternate boundary)?

☐ YES (Does not comply)

- ☐ Monitoring shows contamination of a drinking water source
Contaminating substances and concentrations _____

☐ NO (COMPLIES)

- ☐ Facility does not overlie a drinking water source
- ☐ Monitoring shows no contamination beyond the solid waste
(or alternate boundary)

Chapter 5
ENDANGERED SPECIES
(continued)

☐ YES (Does not comply - Continue to 4)

☐ NO (Continue to 4)

4. Does the facility cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife?

Factors considered:

Type of species and species habitat _____

Species characteristics _____

Sensitivity of species and species habitat to adverse impacts _____

Proximity of facility _____

Facility size, design, and operational characteristics _____

Adverse impacts considered:

Harassing, harrning, pursuing, hunting, wounding, killing, trapping, capturing, or collecting species (direct violation of ESA, does not comply) _____

Adverse modification or loss of habitat (including air & water pollution) _____

Infringement on breeding, nesting, and feeding activities _____

Interference with species movement _____

☐ YES (Does not comply)

☐ NO (COMPLIES)

<p>Chapter 6(b)</p> <p><u>SEWAGE SLUDGE AND SEPTIC</u></p> <p><u>TANK PUMPINGS</u></p> <p>Criterion Compliance Decision</p> <p><input checked="" type="checkbox"/> Complies.</p> <p><input type="checkbox"/> Does Not Comply</p>
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1. Are sewage sludge or septic tank pumpings applied to the surface of the land or incorporated into the soil?
 - ☐ YES (Continue to 2)
 - ☒ NO (COMPLIES)
 - ☒ Facility is a trenching or burial operation

2. Are crops planted for human consumption within 18 months after application of waste?
 - ☐ YES (Continue to 3)
 - ☐ Crops grown at time of inventory are for human consumption
 - ☐ Information from operating plan
 - ☐ Past usage or crops in the vicinity
 - ☐ Information from facility owner/operator
 - ☐ NO (Continue to 5)

3. Does the waste contact the food portion of the crop?
 - ☐ YES (Continue to 4)
 - ☐ Direct application or rainfall splash
 - ☐ Crops with food portion close to the ground
 - ☐ Taller crops that receive application early in growing stage
 - ☐ NO (Continue to 6)

4. Is the waste treated by a process to further reduce pathogens?
 - ☐ YES (COMPLIES)
 - ☐ Verification of acceptable process from appropriate source
Source used _____
 - ☐ NO (Does not comply - continue to 5)
 - ☐ Verification cannot be made

Chapter 6(b)
SEWAGE SLUDGE AND SEPTIC
TANK PUMPINGS
(Continued)

5. Is sewage sludge the waste material being applied?
- ☐ YES (Continue to 6)
- ☐ NO (Continue to 7)
6. Has the sludge been treated by a process to significantly reduce pathogens and is access controlled - 12 months for the public, and 1 month for grazing animals whose products are consumed by man?
- ☐ YES (Both reduction process and access control must be checked)
(COMPLIES)
- ☐ Verification of acceptable process from appropriate source
Source used _____
- ☐ Appropriate access controls are used in public access areas
- ☐ Facility is on private farmland not subject to frequent trespass
- ☐ NO (Does not comply)
- ☐ Verification cannot be made
- ☐ No access controls are used
- ☐ Facility is on private farmland subject to frequent trespass,
and access is not controlled
7. Has the waste been treated by a process to significantly reduce pathogens or is access prevented - 12 months for the public and 1 month for grazing animals whose products are consumed by man?
- ☐ YES (COMPLIES)
- ☐ Verification of acceptable process from appropriate source
Source used _____
- ☐ Access controlled
- ☐ NO (Does not comply)

Chapter 7
APPLICATION TO LAND USED FOR THE
PRODUCTION OF FOOD CHAIN CROPS
(Continued)

4. Is the solid waste and soil mixture at pH 6.5 or greater at the time of solid waste application or at the time the crop is planted, whichever occurs later?

☐ YES (COMPLIES)

☐ NO (Does not comply - continue to 5)

5. Is the background soil pH greater than 6.5 or are there adequate safeguards to assure that the soil pH will be maintained at 6.5 or higher whenever food chain crops are grown?

☐ YES (Continue to 6)

- ☐ SCS maps or reports, or local agricultural extension service
- ☐ Laboratory analysis
- ☐ pH of soil is controlled whenever food chain crops are grown.

☐ NO (Go to 7)

6. Does the soil cadmium concentration exceed 5 kg/ha with a CEC of less than 5, or 10 kg/ha with a CEC of 5 to 15, or 20 kg/ha with a CEC greater than 15?

☐ YES (Does not comply)

☐ NO (COMPLIES - Go to 8)

7. Has the cumulative application of cadmium exceeded 5 kg/ha?

☐ kg/ha cadmium in soil _____
☐ kg/ha cumulative application _____

☐ YES (Does not comply - continue to 8)

☐ NO (COMPLIES - continue to 8)

8. Is the annual application rate of cadmium in excess of 2 kg/ha (1.25 kg/ha after 1/1/84 and 0.5 kg/ha after 1/1/87)?

☐ kg/ha/yr cadmium application rate _____ (see Figure 7-3)

☐ YES (Does not comply - continue to 9)

☐ NO (Continue to 9)

Chapter 7
APPLICATION TO LAND USED FOR THE
PRODUCTION OF FOOD CHAIN CROPS
(Continued)

14. Is the milk or animal feed monitored to assure that the PCB concentrations are less than 1.5 mg/kg (fat basis) in milk, or less than 0.2 mg/kg in animal feed?

☐ YES (COMPLIES)

☐ NO (Does not comply)

Chapter 8

FLOODPLAINS

(continued)

☒ YES (Complies)

- ☐ State washout assessment or 404 permit
- ☒ Site analysis of washout protection

☐ NO (Does not comply)

- ☐ Washout by flood of lesser magnitude than the 100-year flood
- ☐ Site analysis of washout protection

Chapter 8

FLOODPLAINS

(continued)

- ☒ Facility located in a floodplain where the channel is diked to contain the base flood
- ☐ Facility increases base flood level more than 1.0 foot

Priority of facility:

- ☐ Regulatory floodway area - priority 1
- ☐ High flood hazard potential area (Table 1-1) - priority 2
- ☐ Low flood hazard potential area (Table 1-1) - priority 3

Factors considered in flood hazard potential assessment:

Base Flood characteristics: _____
Floodplain topography: _____
Floodplain hydrogeology: _____
Facility characteristics: _____
Natural resources in and adjacent to the floodplain: _____
Land use in and adjacent to the floodplain: _____

☐ YES (Does not comply - Continue to 4)

☒ NO (Continue to 4)

4. Is the facility protected from washout by the base flood so as not to pose a hazard to human life, wildlife, or land or water resources?

Factors considered for washout protection:

Types and Efficiency Protection:

- ☒ Dike or levee _____
- ☐ Berm _____
- ☐ Flexible linings _____
- ☐ Vegetative cover _____
- ☐ Riprap _____
- ☐ Diversion of surface flow _____
- ☐ Change in soil matrix _____
- ☐ Other _____
- ☐ None _____
- ☐ Flood flow velocity _____